

Appl. No.: 10/564,205
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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Please cancel claim(s) 1-48 without prejudice.

Listing of Claims:

1-48. (Cancelled)

49. (New) Apparatus, comprising:

first receiver circuitry configured to receive, via a first communication channel, first data transmitted from within the apparatus in the form of an optical signal; and

second receiver circuitry configured to receive, via a second communication channel, second data transmitted from within the apparatus;

wherein the first receiver circuitry has a first mode in which it is not operable to receive the first data, and a second mode in which it is operable to receive the first data, and in response to the second receiver circuitry receiving the second data when the first receiver circuitry is in the first mode, the first receiver circuitry is operable to switch from being in the first mode to being in the second mode.

50. (New) Apparatus as claimed in claim 49, wherein when the first receiver circuitry is in the second mode, it consumes

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more power than the second receiver circuitry when the second receiver circuitry is operable to receive the second data.

51. (New) Apparatus as claimed in claim 49, wherein the first communication channel is operable to transfer data more quickly than the second communication channel.

52. (New) Apparatus as claimed in claim 49, wherein the first receiver circuitry comprises an opto-electronic device.

53. (New) Apparatus as claimed in claim 52, wherein the second data is in the form of an optical signal and second receiver circuitry comprises the opto-electronic device, and the first receiver circuitry and the second receiver circuitry have different control circuits.

54. (New) Apparatus as claimed in claim 52, wherein the second data is in the form of an optical signal and the second receiver circuitry comprises a second opto-electronic device.

55. (New) Apparatus as claimed in claim 54, wherein the first and second opto-electronic devices are provided in the same package.

56. (New) Apparatus as claimed in claim 49, wherein the second data is in the form of an electrical signal.

57. (New) Apparatus as claimed in claim 56, wherein the second communication channel is provided by a cable for conveying power from a battery to the second receiver circuitry.

58. (New) Apparatus as claimed in claim 57, wherein the second data is an alternating current modulated signal.

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59. (New) Apparatus as claimed in claim 49, wherein the apparatus comprises an optical transmitter for transmitting the first data.

60. (New) Apparatus as claimed in claim 59, wherein the apparatus comprises two parts, one of which comprises the optical transmitter and one of which comprises the first receiver circuitry and the second receiver circuitry.

61. (New) Apparatus as claimed in claim 60, wherein the two parts are movable relative to each other.

62. (New) Apparatus as claimed in claim 60, wherein one of the parts is detachable from the other part.

63. (New) Apparatus as claimed in claim 61, wherein the two parts are connected by a hinge for rotating one of the parts relative to another.

64. (New) Apparatus as claimed in claim 63, wherein the hinge is an optical hinge comprising the first communication channel.

65. (New) Apparatus as claimed in claim 49, wherein when the first receiver circuitry does not receive an optical signal for a period of time, it enters into a sleep mode.

66. (New) Apparatus as claimed in claim 65, wherein the second data indicates that the second receiver circuitry is to wake up the first receiver circuitry from the sleep mode.

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67. (New) Apparatus as claimed in claim 49, wherein the second receiver circuitry continuously monitors the second communication channel for the second data.

68. (New) An apparatus as claimed in claim 49, wherein the apparatus is a portable electronic apparatus.

69. (New) A method, comprising:

receiving data at receiver circuitry;

in response to receiving the data at the receiver circuitry, switching further receiver circuitry from being in a first mode in which the further receiver circuitry is not operable to receive further data in the form of an optical signal, to being in a second mode in which the further receiver circuitry is operable to receive the further data in the form of an optical signal; and

receiving, at the further receiver circuitry, the further data in the form of an optical signal.

70. (New) A method as claimed in claim 69, wherein when the further receiver circuitry is in the second mode, it consumes more power than the receiver circuitry when the receiver circuitry is operable to receive the data.

71. (New) A method as claimed in claim 69, wherein the further receiver circuitry comprises an opto-electronic device.

72. (New) A method as claimed in claim 71, wherein the data is in the form of an optical signal and the receiver circuitry

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comprises the opto-electronic device, and the further receiver circuitry and the second receiver circuitry have different control circuits.

73. (New) A method as claimed in claim 71, wherein the data is in the form of an optical signal and the receiver circuitry comprises a second opto-electronic device.

74. (New) A method as claimed in claim 69, wherein the data is in the form of an electrical signal.

75. (New) A method as claimed in claim 74, wherein the communication channel is provided by a cable for conveying power from a battery to the second receiver circuitry.

76. (New) A method as claimed in claim 69, wherein when the further receiver circuitry does not receive an optical signal for a period of time, it enters into a sleep mode.

77. (New) A method as claimed in claim 76, wherein the data indicates that the receiver circuitry is to wake up the further receiver circuitry from the sleep mode.

78. (New) A method as claimed in claim 69, wherein the apparatus is a portable electronic apparatus and the first receiver circuitry and the second receiver circuitry are located in a first part of the portable electronic apparatus, the first data is transmitted by an optical transmitter, located in a second part of the portable electronic apparatus, and the first and second parts of the portable electronic apparatus are movable relative to each other.

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79. (New) A method as claimed in claim 78, wherein the first and second parts are connected to each other by a hinge for rotating the first and second parts relative to each other.

80. (New) Apparatus, comprising:

first receiving means for receiving, via a first communication channel, first data transmitted from within the apparatus in the form of an optical signal; and

second receiving means for receiving, via a second communication channel, second data transmitted from within the apparatus;

wherein the first receiving means has a first mode in which it is not operable to receive the first data, and a second mode in which it is operable to receive the first data, and in response to the second receiving means receiving the second data when the first receiving means is in the first mode, the first receiving means is operable to switch from being in the first mode to being in the second mode.

81. (New) Apparatus, comprising:

first receiver circuitry configured to receive first data in the form of an optical signal, via a first communication channel; and

second receiver circuitry to receive second data via a second communication channel;

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wherein the second receiver circuitry is configured, in response to receiving the second data via the second communication channel, to activate the first receiver circuitry to receive the first data via the first communication channel.

82. (New) Apparatus, comprising:

a first part;

a second part, movable relative to the first part;

an optical transmitter, located in the second part, for transmitting first data in the form of an optical signal;

first receiver circuitry, located in the first part, for receiving the first data in the form of an optical signal, via a first communication channel; and

second receiver circuitry, located in the first part, for receiving second data transmitted from the second part, via a second communication channel;

wherein the first receiver circuitry has a first mode in which it is not operable to receive the first data, and a second mode in which it is operable to receive the first data, and in response to the second receiver circuitry receiving the second data when the first receiver circuitry is in the first mode, the first receiver circuitry is operable to switch from being in the first mode to being in the second mode.